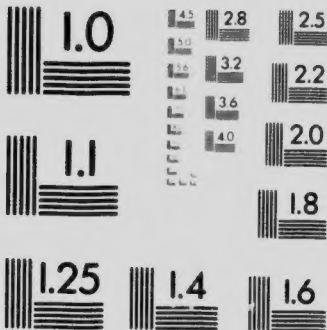
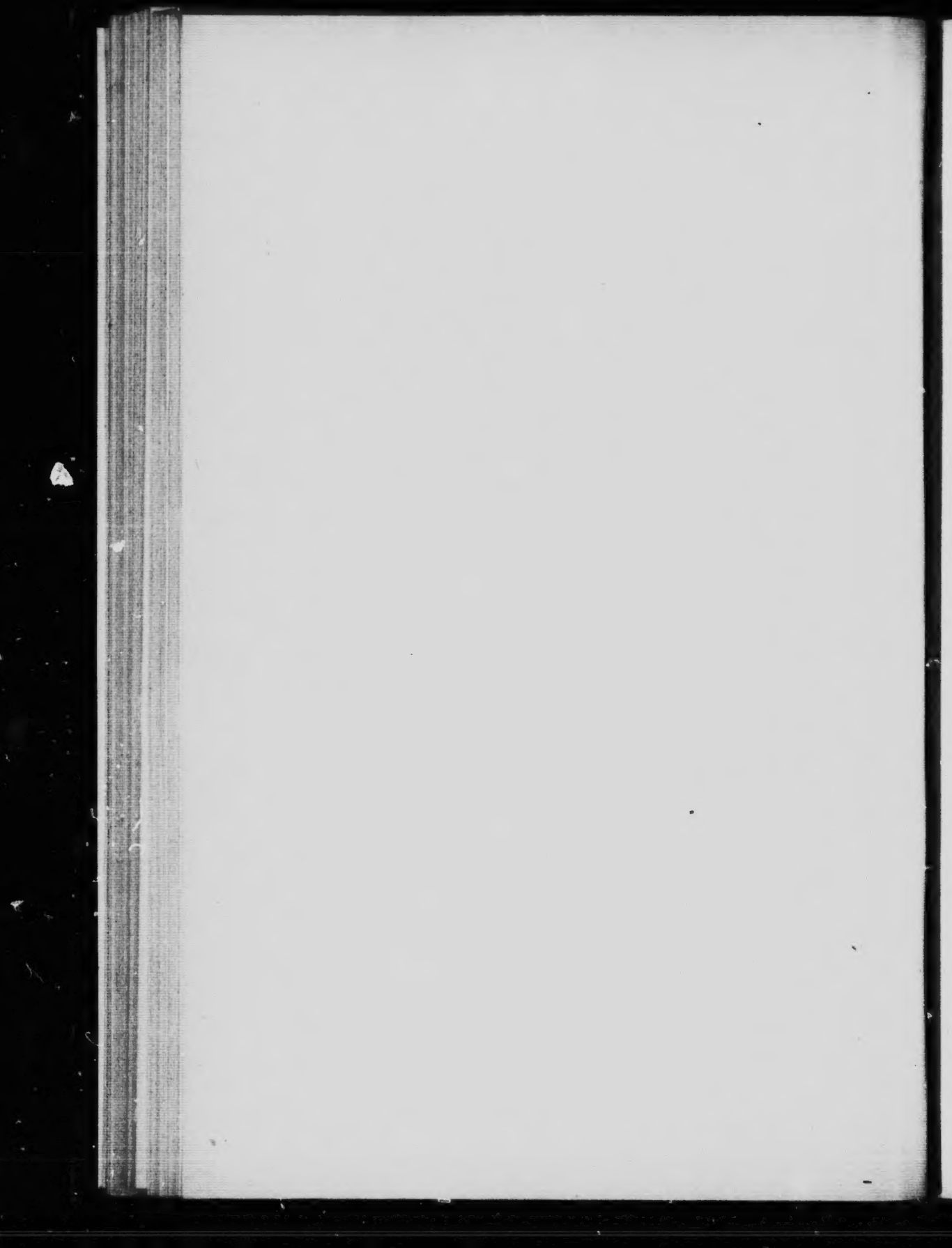


(ANSI and ISO TEST CHART No. 2)



1653 East Main Street
Rochester, New York 14609 USA
(716) 482-0300 - Phone
(716) 288-5989 - Fax



LABORATORY

OF THE

INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

BULLETIN No. 308

BAKING POWDERS

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA CANADA

BULLETIN No. 308

BAKING POWDERS

OTTAWA. March 16, 1915.

J. U. VINCENT, Esq.,
Deputy Minister, Inland Revenue.

SIR,—I beg to hand you a report of work done upon two hundred and fifty-one (251) samples of Baking Powders purchased by our inspectors in October, November and December of last year.

This article has been the subject of four (4) reports, previous to the present one, as follows:—

| Year. | Bulletin. | Total Samples. | Cream Tartar. | Alum Phosphate. | Alum. | Others, Chiefly Acid Phosphate. |
|------------|-----------|----------------|---------------|-----------------|-------|---------------------------------|
| 1889 | 10 | 148 | 73 | 59 | 5 | 11 |
| 1900 | 68 | 168 | 54 | 83 | 31 | 0 |
| 1908 | 174 | 158 | 60 | 84 | 14 | 0 |
| 1912 | 240 | 150 | 46 | 68 | 5 | 31 |
| 1915 | 308 | 251 | 32 | 111 | 32 | 76 |
| | | 875 | 265 | 405 | 87 | 118 |

This conspectus shows that Cream of Tartar Baking Powders are gradually giving place to the cheaper powders made with dessicated alum and acid phosphate of lime.

So far as baking quality goes, these last, when well made, are perfectly satisfactory. They yield carbon dioxide gas in sufficient amount, and with the necessary slowness to produce a spongy dough.

Upon the general subject of Baking Powders, I cannot do better than quote from my introductory letter to Bulletin No. 174.

The qualities demanded in a satisfactory baking powder, are:—

1. Efficiency as a gas producer.
2. That the gas be generated gradually, and only completed at the temperature of the oven.
3. That the powder keep well, either on the grocer's shelves or in the kitchen.
4. That the residues left in the bread should be harmless to health, and without undesirable taste or discolouring power.
5. That the powder be sold at a low price.

I have not attempted to enumerate these conditions of value in the order of their importance, for the simple reason that this will be different for different people. It must be inferred, from the table above given, that the alum phosphate powder meets the case, in the opinion of the Canadian consumer. A few words of comment and explanation may be offered.

1. *Efficiency as gas producer.*—Since the gas (carbon dioxide) evolved from any one of these types of baking powder is dependent upon the decomposition of bi-carbonate of soda, contained therein, it would seem at first sight, that the powder containing most bi-carbonate of soda would be the best. Unless, however, the acid component be present in sufficient amount to completely decompose the bi-carbonate, a residuum of carbonate of soda remains in the bread, and gives a yellow, mottled appearance, and a soapy taste to it. For this reason, the amount of bi-carbonate of soda that can be present in a baking powder is limited to the acid value of the complementary component. The maximum amount of bi-carbonate of soda which can be theoretically present in the three types of powder here considered, is as follows:—

| | Bi-Carbonate of Soda. | Available Gas. |
|---|--------------------------|----------------|
| of Tartar Powder..... | 30.8 p.c. | 16.18 p.c. |
| Powder (See Bull. 10 p. 28)..... | 51.5 " | 27.00 " |
| Alum Phosphate Powder (See Bull. 26 p. 22)..... | 39.65 " | 20.77 " |

(As a matter of fact, it is not possible to fix a limit value to the alum phosphate powder, since varying proportions of the alum and phosphate of lime in the mixture cause the acid values to vary between the limits for 100 per cent alum and 100 per cent acid phosphate of lime. For a commercial sample of the latter (Bull. 26, p. 22) the values 29.5 p.c. bi-carb. soda = 15.5 p.c. gas, were found.)

The theoretical limits above quoted are not available in practice for the reason that, unless some third substance, of an inert character, is added, the mixture will more or less rapidly deteriorate, through the presence of traces of moisture in the powder itself or by access of moisture from the air. It is usual to employ starch (flour or maize) as the filler; but in alum phosphate powders, sulphate of lime (*terra alba*), as well as starch, is usually found. This *terra alba* is not necessarily added intentionally, but is a bye product in the manufacture of acid phosphate of lime. It is further to be noted that the limits mentioned are only possible where the acid component is chemically pure, a condition not to be looked for, and very seldom occurring in commerce. If we assume commercial cream of tartar of good quality to be 94.95 per

cent pure and a filler (starch) to be added in the proportion of 20 per cent by weight, the resultant baking powder would have the following composition:—

| | Per cent |
|--------------------------------|-------------|
| Bi-carbonate of soda | 23.7 |
| Cream of Tartar | 56.3 |
| Starch | 20.0 |
| | <hr/> 100.0 |

Such a baking powder is capable of developing 12.38 per cent, by weight of gas, and may be considered as a typical, high class Cream of Tartar powder.

2. Gradual development of the gas is important because gas must be continuously produced while the bread is in the oven, and until the dough "sets," i.e. becomes hard enough to retain its size and shape when cool. Otherwise, collapse of the loaf results, and the bread is "heavy" or "sad". Fulfilment of this condition depends chiefly upon the sparing solubility of the acid ingredient of the powder. Cream of tartar, alum, (dehydrated) and alum phosphate of lime are found to meet necessary conditions. Doubtless the too ready solubility of tartaric acid, bi-sulphate of potash and acid phosphate of lime (per se) is the reason why these substances are now so seldom used in baking powders.

3. The keeping qualities of the powder depend upon the thorough drying of the components, separately; the proper employment of a filler, and the careful protection of the finished powder from atmospheric damp.

4. With exception of the starch used as a filler, the components of baking powders have no food value, and must be regarded as, at least, indifferent and perhaps positively harmful. When cream of tartar is the acid component, the residue is Rochelle salt, a gentle aperient and probably doing no harm to healthy people.

With alum, the residue is a mixture of alumina and sulphate of soda (Glauber's salt), the latter a powerful purgative and the former an insoluble substance. In alum phosphate powders, the residue is a mixture of phosphate of alumina, or alumina; (Glauber's salt, and phosphate of soda.) The last is a gentle purgative.

The above statements assume that the reaction between bi-carbonate of soda, and the acid ingredient of the powder, is completed during the process of baking; and that the components have been so nicely balanced, that the resultant bread is free from either component in excess. It is safe to say that this condition is very seldom, and probably never fulfilled. In such case, if any considerable excess of bi-carbonate of soda exists in the powder, the resultant bread will contain yellow spots, due to carbonate of soda (same as washing soda) and will have a soapy taste. If the acid used be in excess, the resultant bread will contain unchanged cream of tartar, or alum. The last named is known to be injurious to health, and its possible presence is the main reason for preferring powders made without alum. Manufacturers seek to prevent the possibility of residual alum by adding a distinct excess of bi-carbonate of soda, to these powders. By consulting the appended tables it will be seen that this excess, in case of alum-phosphate runs from three to four or more per cent. The number given in the column headed "residual carbon dioxide," must be multiplied by $\frac{84}{100}$ = 1.91 to give the excess in terms of bi-carbonate of soda.

It is not necessary to add so great an excess of bicarbonate to a cream of tartar powder, because the reaction between cream of tartar and bi-carbonate is more definite than that between burnt alum and bi-carbonate. The great insolubility of burnt alum renders the completion of the reaction, at the temperature of baking, and in the presence of the limited amount of water present in dough, very uncertain.

5. The question of cheapness in a baking powder is too complex to be discussed at length in this place. Bi-carbonate of soda is quoted at \$1.50 per 100 lbs. f.o.b. Montreal, cream of tartar at \$18 per cwt., burnt alum and acid phosphate of lime are low-priced articles, but I have not been able to get actual figures.

(NOTE.—This was written in 1909.)

It is evident that the cost of making a baking powder is chiefly dependent upon the price of the acid component. The cost of using a baking powder is a different matter. Here the question of effect upon the health comes into consideration, and the price of the article may cut a small figure in the transaction.

In the absence of any legal definition of baking powder, it is, of course, impossible to classify the samples now reported, as genuine or adulterated, so long as they do not contain anything known to be injurious to health. This report serves the purpose of furnishing information regarding baking powder, as now found on the Canadian market, and it is to be hoped that this knowledge may enable a definition of baking powder to be formulated.

Under the heading "available carbon dioxide," in the accompanying tables, will be found the maximum percentage weight of leavening gas obtainable in baking. From what has been already said, we know that a good cream of tartar powder should yield about 12.5 per cent of gas. Any powder which yields more than this amount, almost certainly contains free tartaric acid, or burnt alum. Since any baking powder deteriorates more or less on keeping, we can only expect 12.5 per cent of gas in a perfectly fresh powder. Experience proves, however, that a well-packed baking powder may be kept for several months, or even for a year, without very material change. I am of opinion that a minimum limit of 10 per cent available gas would be quite reasonable, and that there is no necessity for having on the market any baking powder possessing less than 10 per cent of available gas production. 10% or

When the reaction between the bi-carbonate of soda and the acid present in the powder is completed, the further addition of acid will cause the evolution of more carbon dioxide gas, provided that an excess of bi-carbonate of soda is present in the powder. The amount of such gas evolved affords a measure of the excess of bi-carbonate in the powder. It must be understood that this additional gas, while available to the analyst in the laboratory, is not available to the cook in ordinary baking operations. The column headed "Residual carbon dioxide" contains the numbers so obtained. This number should be small, in a carefully prepared powder.

The starch component in a baking powder is of no importance except so far as the presence of a high percentage of starch necessitates a lowered percentage of the active components. On account of its high acidity burnt alum permits the use of a high starch percentage, and it is no unusual thing to find from 45 to 50 per cent of starch in alum powders. Alum phosphate powders usually contain from 35 to 45 per cent of starch. As already shown, a good cream of tartar powder cannot contain much above 20 per cent of starch. This may, however, be considerably increased without lowering the efficiency of the powder, if free tartaric acid is made to take the place of an equal weight of cream of tartar.

Sulphate of lime (terra alba) is an undesirable filler. It is usually present in phosphate powders, as the acid phosphate of lime is manufactured by treatment of the neutral phosphate with sulphuric acid, leaving in the product an equivalent weight of sulphate of lime. Less objection can be taken to this modicum of sulphate of lime, than to the addition of terra alba, as such, to the baking powder. While having no positively harmful effect terra alba has the objectionable qualities of great insolubility and total lack of food value.

End of quotation from page 174

It is sometimes claimed for it that being less hygroscopic than starch; it makes a better filler, enabling the powder to be kept longer without deterioration. I believe that the majority of consumers would prefer some form of starch and with reason."

The foregoing citation from Bulletin 174 is, in the main, applicable to the present report. It contains one statement, however, which requires some explanation. Alum is known to be injurious to health. Its marked astringency and acidity, and the fact that soluble salts of alumina react with food phosphates to render these insoluble, sufficiently explain its unwholesomeness. In order to justify its employment in baking powders, manufacturers have apologized in various ways:—

1. They have claimed that the sodium, aluminium sulphate, chiefly used as a baking powder ingredient, is not an alum. This is a mere subterfuge. It is true that the alums of commerce are either double salts of potassium and aluminium, or of ammonium and aluminium, because these salts crystallize well, whereas the sodium and aluminium sulphate is deliquescent, and does not readily crystallize. But, whether we regard the matter from a chemical or physiological standpoint, the double sulphate of sodium, and aluminium is an alum.

2. They have claimed that, although alum is present in the baking powder, there is no alum in the bread. This, because changes occur in the baking process, which convert the alumina into an insoluble, and therefore a harmless form.

These powders usually contain a considerable excess of bi-carbonate of soda, and if complete reaction could be secured between the soda and the alum this contention would doubtless be realized. But the difficult solubility of burnt alum makes it almost impossible to bring about a complete reaction; and in consequence of this, unchanged alum can easily be demonstrated in the crumb of bread made with an alum powder.

3. They have claimed that the introduction of acid phosphate of lime into alum powders, largely prevents the retention of unchanged alum in the bread. Doubtless the introduction of acid phosphate is an improvement. It at the same time reduces the amount of alum needed to give required acidity, and increases the proportion of insoluble alumina in the bread. So called *alum phosphate* powders now constitute the most numerous class on the Canadian market.

Although alum is recognized as an undesirable component of food, it has been held that the minute amount introduced through alum baking powders, cannot be regarded as harmful to health in any appreciable degree. This phase of the matter has recently been made the subject of exhaustive investigation by a Board of Experts in the United States. The Board in question consists of the following:—

Ira Råmsen, president of John Hopkins University; Russell H. Chittenden, director of the Sheffield Scientific School; John H. Long, professor of Chemistry in the North Western University; Alonzo E. Taylor, professor of Chemistry in the University of Pennsylvania; Theobald Smith, professor of Comparative pathology in Harvard University.

The results of the prolonged experimental investigation carried out by the above named Referee Board, are published as Bulletin No. 103 of the Department of Agriculture, Washington; dated April 29, 1914, and are summed up as follows:—

Aluminum compounds when used in the form of baking powders in foods have not been found to affect injuriously the nutritive value of such foods.

Aluminum compounds when added to foods in the form of baking powders, in small quantities, have not been found to contribute any poisonous or other deleterious effect which may render the said food injurious to health. The same holds true for the amount of aluminum which may be included in the ordinary consumption of aluminum baking powders furnishing up to 150 milligrams (2.31 grains) of aluminum daily.

Aluminum compounds when added to foods, in the form of baking powders usually provoke catharsis. This action of aluminum baking powders is due to the sodium sulphate which results from the reaction.

The aluminum itself has not been found to exert any deleterious action injurious to health, beyond the production of occasional colic when very large amounts have been ingested.

When aluminum compounds are mixed or packed with a food, the quality or strength of said food has not been found to be thereby reduced, lowered, or injuriously affected.

The decision reached would appear to place alum baking powders in practically the same class, with other baking powders, so far as the effect upon health is concerned. If this be conceded, there remains only the question of value received by the consumer. Regarded merely as a leavening agent, what may the purchaser of a baking powder reasonably expect in gas developing power?

It has already been shown that a properly made baking powder, where cream of tartar is the acid ingredient should yield about 12.38 per cent of available gas. Cream of tartar powders were, unquestionably, the first found in commerce; and all subsequent baking powders have been so made as to approximate in gas producing power, to the cream of tartar powder. Some of these later powders produce more gas than a cream of tartar powder can be made to yield; but by far the greater number, and apparently the most approved by the public, aim at about 12.5 per cent of gas.

The following history of inspection in this regard, may be put on record.

AVAILABLE GAS

Inspection of 1889.

| | Samples. | Average gas p.c. |
|---|----------|------------------|
| Cream of Tartar Powders..... | 47 | 8.64 |
| Cream Tartar with Tart. Acid..... | 13 | 9.09 |
| Cream Tartar with Carbonate of Ammonia..... | 14 | 11.17 |
| Alum Baking Powders..... | 5 | 7.66 |
| Acid Phosphate Powders..... | 4 | 6.38 |
| Alum Phosphate Powders..... | 59 | 7.79 |
| Bi-Sulphate Potash Powders..... | 7 | 3.35 |

Inspection of 1900.

| | | |
|------------------------------|----|-------|
| Cream of Tartar Powders..... | 44 | 11.70 |
| Alum and Acid Phosphate..... | 88 | 8.70 |
| Alum Powders..... | 24 | 10.30 |

Inspection of 1908

| | | |
|------------------------------|----|-------|
| Cream of Tartar Powders..... | 60 | 10.66 |
| Alum Baking Powders..... | 14 | 11.49 |
| Alum Phosphate Powders..... | 84 | 9.74 |

Inspection of 1911.

| | | |
|-------------------------------|----|-------|
| Cream of Tartar Powders | 46 | 11 01 |
| Alum Powders | 5 | 12 40 |
| Acid Phosphate..... | 31 | 11 25 |
| Alum Phosphate..... | 68 | 10 78 |

Inspection of 1914

| | | |
|-------------------------------|-----|-------|
| Cream of Tartar Powders | 32 | 11 24 |
| Alum Phosphate Powders..... | 111 | 11 41 |
| Alum Powders..... | 32 | 11 62 |
| Other Powders..... | 76 | 11 08 |

Summary.

| | |
|--|--|
| 1889—149 samples averaged 8.17 per cent gas. | |
| 1900—156 " 9.80 " | |
| 1908—158 " 10.24 " | |
| 1911—150 " 11.00 " | |
| 1914—251 " 11.31 " | |

This summary indicates clearly a great and increasing improvement in the character of baking powders, regarded as leavening agents, since their first inspection in 1889.

Further, it appears to justify the contention that a good baking powder should be capable of yielding at least 10 per cent of available gas, as determined by laboratory methods.

In this connection it is necessary to remark that, while the available gas in the case of a cream of tartar powder, or an acid phosphate powder, is easily determinable by a few minutes boiling with water, the very difficult solubility of dehydrated alum, makes it necessary to continue the boiling for some length of time, in order to secure complete interaction of the acid ingredient and the bicarbonate of soda. The following figures illustrate this point. In all cases two (2) grammes of the sample was treated with one hundred and fifty cc. (150 cc.) water, and heat gradually applied, with final boiling of the water for from ten to thirty minutes (10-30).

Alum Phosphate Powders.

| No. | Time in minutes. | Available gas. | Residual gas. | Total gas. | Total duration of experiment. |
|-----------------|------------------|----------------|---------------|------------|-------------------------------|
| 62574 | 45 | 9.7 | 3.1 | 12.8 | 105 minutes. |
| | 70 | 10.15 | 2.15 | 12.3 | 130 " |
| 247 | 50 | 4.9 | 8.4 | 13.3 | 90 " |
| | 60 | 6.95 | 6.00 | 12.95 | 105 " |
| 55117 | 50 | 7.65 | 4.00 | 11.65 | 90 " |
| | 60 | 11.80 | 0.15 | 11.95 | 75 " |
| 55122 | 40 | 7.2 | 4.95 | 12.15 | 80 " |
| | 80 | 11.35 | 1.33 | 12.7 | 125 " |
| 59642 | 45 | 5.55 | 5.6 | 11.15 | 95 " |
| | 60 | 8.90 | 1.35 | 10.25 | 130 " |
| 62572 (Alum) | 45 | 5.25 | 5.05 | 10.75 | 100 " |
| | 90 | 7.35 | 3.60 | 10.95 | 130 " |

It is inconceivable that in actual baking, a higher yield of gas should be obtained than is represented by a laboratory experiment of thirty minutes duration, including a period of ten minutes at boiling temperature. For the purposes of a legal test, however, it might be permissible to define a period of thirty minutes before boiling followed by 10 or 15 minutes at boiling temperature. It is evident that some investigatory work is necessary to determine conditions quite fair to all concerned. This matter will receive attention with as little delay as possible. The available gas reported at this time has been determined by work extending over about 45 to 60 minutes.

Regarding the 251 samples now reported, the following synopsis may be of interest.

| | |
|--|--------------|
| Available gas above 12 per cent. | 100 Samples. |
| " " 11 " | 62 " |
| " " 10 " | 45 " |
| " " 9 " | 12 " |
| " " 8 " | 15 " |
| " " 7 " | 5 " |
| " " 6 " | 5 " |
| " gas below 6 " | 7 " |
| Total | 251 " |

I beg to recommend publication of this report as Bulletin No. 308

I have the honour to be Sir,

Your obedient servant,

A. MCGILL.

Chief Analyst.

| Date of Collection. | Nature of Sample | No. of Sample. | Name and Address of Vendor. | Name and Address of Manufacturer or Furnisher as given by the Vendor. | | |
|---------------------|------------------|----------------|-----------------------------|---|-------|-------------------------------|
| | | | | Quantity. | Cost. | |
| | | | | | | Manufacturer. Furnisher. |

DISTRICT OF NOVA SCOTIA

1914

| | | | | | | | |
|---------|----------------|-------|--|---------|----|------------------------------------|------------------------|
| Dec. 15 | Baking Powder. | 54206 | D. C. Mulhall, Liverpool, N.S. | 3 pkgs. | 45 | Royal Baking Powder Co., New York. | R. B. Seaton, Halifax. |
| " 15 | | 54207 | F. I. Seldon & Son, Liverpool, N.S. | 3 " | 30 | E. W. Gillett Co., Toronto. | " " |
| " 16 | | 54208 | H. C. Barnaby & Son, Bridgewater, N.S. | 3 " | 30 | W. M. D. Pearson, Halifax. | Unknown |
| " 29 | | 54209 | Wm. Moore, Halifax, N.S. | 3 " | 10 | " " | Manufacturer.. |
| " 29 | | 54210 | Corkum & Ritsy, Halifax, N.S. | 3 " | 10 | Gray Mfg. Co., Halifax. | " " |

1915.

| | | | | | | | |
|---------|--|-------|------------------------------------|-----|----|--|------------------------|
| Jan. 14 | | 54211 | Eaton & Co., Canning, N.S. | 3 " | 30 | Coffee and Spice Mills, St. John, N.B. | " " |
| " 14 | | 53212 | Lamont & Steadman, Kentville, N.S. | 3 " | 30 | Coleman B. P. Co., Brockville. | " " |
| " 15 | | 54213 | Shand Bros., Windsor, N.S. | 3 " | 30 | E. W. Gillett, .. | " " |
| " 15 | | 54214 | D. Wood, Windsor, N.S. | 3 " | 15 | W. M. D. Pearson, Halifax. | R. B. Seaton, Halifax. |
| " 15 | | 54215 | H. H. Richardson, Windsor, N.S. | 3 " | 30 | Royal Baking Powder Co., New York. | " " |

DISTRICT OF NOVA SCOTIA--

1914.

| | | | | | | | |
|--------|----------------|-------|--------------------------------|-------------|----|--------------------------------------|---------------------------------------|
| Dec. 5 | Baking Powder. | 65801 | The C. Barkers, Ltd., Glasgow. | New 3 tins. | 42 | Royal Baking Powder Co., New Jersey. | McCulloch, Creelman, Urquhart, Truro. |
| " 5 | | 65802 | A. A. McDonald, Glasgow. | New 3 " | 45 | " " | " " |
| " 5 | | 65803 | James McArthur, Glasgow. | New 3 " | 30 | Coleman B. P. Co., Brockville. | Barber's, St. John, N.B. |
| " 7 | | 65804 | Abraham Myette, Tracadie. | 3 " | 30 | E. W. Gillett Co., Toronto. | John Tobin & Son, Halifax. |

DISTRICT OF NEW BRUNSWICK

| | | | | | | | |
|---------|----------------|-------|--------------------------------------|--------|-----|---|-----|
| Nov. 10 | Baking Powder. | 59636 | Walter Gilbert, St. John, N.B. | 3 tin. | 30 | Coleman Baking Powder Co., Ltd., Brockville, Ont. | " " |
| " 11 | | 59638 | Standard Extract Co., St. John, N.B. | 3 " | Nil | Vendor | " " |
| " 10 | | 59637 | Dearborn & Co., St. John, N.B. | 3 " | 30 | " " | " " |

BAKING POWDER.

| Inspector's Report. (Is not an expression of opinion.) | Results of Analysis. | | | Character of Powder. | No. of Sample. | Remarks and Opinion of the Chief Analyst. |
|--|----------------------|-----------|--------|----------------------|----------------|--|
| | Carbon Dioxide. | | | | | |
| | Available. | Residual. | Total. | | | |

R. J. WAUGH, INSPECTOR.

| | p. c. | p. c. | p. c. | | |
|-------------------|-------|-------|-------|----------------------|-------|
| Royal Brand | 12.40 | 0.50 | 12.90 | Cream of Tartar..... | 54206 |
| Mazda | 11.60 | 0.10 | 11.70 | Phosphate..... | 54207 |
| W. Hill's, German | 8.05 | 0.85 | 8.90 | "..... | 54208 |
| " | 8.30 | 1.90 | 10.20 | "..... | 54209 |
| N. Process | 9.40 | 0.65 | 10.05 | "..... | 54210 |
| De Gans | 11.00 | 0.20 | 11.20 | Cream of Tartar..... | 54211 |
| German's Special | 14.05 | 0.50 | 14.55 | Alum Phosphate..... | 54212 |
| Mazda Brand | 10.45 | 0.25 | 10.70 | Phosphate..... | 54213 |
| W. Hill's, German | 8.40 | 1.30 | 9.70 | "..... | 54214 |
| Royal Brand | 12.15 | 0.40 | 12.55 | Cream of Tartar..... | 54215 |

W. A. PETIPAS, TEMPORARY INSPECTOR.

| | | | | | |
|---------|-------|------|-------|----------------------|-------|
| " | 11.00 | 1.55 | 12.55 | Cream of Tartar..... | 65801 |
| " | 10.65 | 1.25 | 11.90 | "..... | 65802 |
| De Gans | 11.40 | 0.60 | 12.00 | Alum Phosphate..... | 65803 |
| Mazda | 11.35 | 0.45 | 11.80 | Phosphate..... | 65804 |

J. C. FERGUSON, INSPECTOR.

| | | | | | |
|--------------------|-------|------|-------|----------------------|-------|
| German's Special | 13.15 | 0.90 | 14.05 | Alum Phosphate..... | 59636 |
| German Crown Brand | 13.50 | 0.30 | 13.80 | Phosphate..... | 59638 |
| De Gans Brand | 12.10 | 0.15 | 12.25 | Cream of Tartar..... | 59637 |

BULLETIN No. 308—

| Date of Collection. | Nature of Sample. | No. of Sample. | Name and Address of Vendor. | Cost. | | Name and Address of Manufacturer or Furnisher as given by the Vendor. | |
|---------------------|-------------------|----------------|-----------------------------|-----------|--------|---|------------|
| | | | | Quantity. | Cents. | Manufacturer. | Furnisher. |

DISTRICT OF NEW BRUNSWICK

| | | | | | | | |
|---------|----------------|-------|---------------------------------------|---------|----|---|--|
| 1914. | | | | | | | |
| Nov. 17 | Baking Powder. | 59639 | W. H. Flemming, Woodstock N.B. | 3 tins. | 45 | E. W. Gillett Co., Toronto. | |
| " 17 | " | 59640 | W. B. DeLong, Woodstock N.B. | 3 " | 75 | National Drug and Chemical Co., Canada. | |
| " 19 | " | 59641 | D. R. Bidell, Andover, N.B. | 3 " | 90 | Royal B. P. Co., New York. | |
| " 20 | " | 59642 | Currie Bros., Fredericton, N.B. | 3 " | 45 | Coleman B. P. Co., Brockville. | |
| " 26 | " | 59643 | P. F. McKenna, St. Stephen, N.B. | 3 " | 40 | Royal B. P. Co., New York. | |
| Dec. 9 | " | 59644 | Reed Co., Ltd., Moncton, N.B. | 3 " | 30 | E. W. Gillett Co., Toronto. | |
| " 10 | " | 59645 | W. S. Loggie Co., Ltd., Chatham, N.B. | 3 " | 30 | Dearborn & Co., St. John, N.B. | |

DISTRICT OF PRINCE EDWARD ISLAND

| | | | | | | | |
|---------|----------------|-------|------------------------------|--------|----|-------------------------------------|---------------------------|
| Oct. 24 | Baking Powder. | 601 | Beer & Goff, Ch.-town | 3 pkgs | 30 | E. W. Gillett Co., Toronto. | |
| " 24 | " | 60147 | " " " | 3 " | 90 | Royal B. P. Co., New York. | |
| " 24 | " | 60148 | Jenkins & Sons, Ch.-town | 3 " | 30 | Coleman B. P. Co., Brockville, Ont. | |
| " 24 | " | 60149 | Stewart & Sons, Ch.-town | 3 " | 60 | Johnson & Johnson, Ch.-town. | |
| " 27 | " | 60150 | Coffin & Co., Ch.-town | 3 " | 30 | Royal B. P. Co., New Jersey. | |
| " 27 | " | 60151 | J. C. Crabbe, Ch.-town | 3 " | 30 | | E. E. McEachern Ch.-town. |
| " 27 | " | 60152 | " " " | 3 " | 30 | E. W. Gillett Co., Toronto. | |
| " 27 | " | 60153 | Johnson & Johnson, Ch.-town. | 3 " | 60 | Vendor | |

DISTRICT OF QUEBEC—

| | | | | | | | |
|--------|---------------|-------|--|--------|----|--------------------------------|---------------------------|
| Nov. 3 | Poudre a Pat. | 60739 | O. Lacroix, 19 Rue St. Joseph, Quebec. | 3 pkgs | 15 | T. D. McLaren, Ltd., Montreal. | Turcotte & Frere |
| " 3 | " | 60740 | " " " | 3 " | 75 | Royal B. P. Co., Montreal. | J. B. Renaud & Cie. |
| " 3 | " | 60741 | " " " | 3 " | 75 | Duffy Co., Montreal. | Turcotte & Frere |
| " 3 | " | 60742 | " " " | 3 " | 45 | Quebec B. P. | Harmonegile Pare, Quebec. |
| " 4 | " | 60743 | A. Grenier, 94 Rue St. Jean, Quebec. | 3 " | 45 | Coleman B. P. Co., Montreal. | N. Turcotte & Cie. |
| " 5 | " | 60744 | " " " | 3 " | 30 | N. D. McLaren, Montreal. | " |

BAKING POWDER.

| Inspector's Report. (Is not an expression of opinion) | Results of Analysis. | | | Character of Powder. | No. of Sample. | Remarks and Opinion of the Chief Analyst. |
|---|----------------------|-----------|--------|----------------------|----------------|--|
| | Carbon Dioxide. | | | | | |
| | Available | Residual. | Total. | | | |
| <hr/> | | | | | | |
| Mag. | 5.17 | 2.41 | 7.58 | Phosphate. | 59639 | |
| S. George Brand | 6.65 | 0.55 | 7.20 | Cream of Tartar. | 59640 | |
| Royal | 11.95 | 0.45 | 12.40 | " | 59641 | |
| Columbus | 8.90 | 1.35 | 10.25 | Alum Phosphate. | 59642 | |
| Royal | 12.20 | 0.45 | 12.65 | Cream of Tartar. | 59643 | |
| Mag. | 13.25 | 0.10 | 13.35 | Acid Phosphate. | 59644 | |
| Deason's Perfect. | 11.65 | 0.30 | 11.95 | Cream of Tartar. | 59645 | |

W. M. WEEKS, INSPECTOR.

| | | | | | | |
|---------------------|-------|------|-------|------------------|-------|--|
| Mag. | 2.65 | 1.25 | 4.90 | Phosphate. | 60146 | |
| Royal | 12.30 | 0.45 | 12.75 | Cream of Tartar. | 60147 | |
| Columbus's Special. | 5.90 | 1.00 | 6.90 | Alum Phosphate. | 60148 | |
| Johnson's. | 10.35 | 2.70 | 13.05 | Acid | 60149 | |
| Royal | 10.70 | 0.55 | 11.25 | Cream of Tartar. | 60150 | |
| Columbus's Choice | 7.10 | 2.25 | 9.35 | Alum | 60151 | |
| Mag. | 10.80 | 1.30 | 12.10 | Acid Phosphate. | 60152 | |
| Columbus | 11.45 | 1.50 | 12.95 | " | 60153 | |

F. A. W. E. BELAND, INSPECTOR.

| | | | | | | |
|---------------------|-------|------|-------|-----------------|-------|--|
| Columbus's Friend | 10.10 | 0.1 | 10.2 | Acid Phosphate. | 60739 | |
| Royal | 10.60 | 0.2 | 10.8 | Cream of Tartar | 60740 | |
| Columbus's Favorite | 10.10 | 5.75 | 15.85 | Alum Phosphate. | 60741 | |
| Johnson's | 11.45 | 1.65 | 13.10 | " | 60742 | |
| Columbus's | 11.50 | 2.80 | 14.30 | " | 60743 | |
| Columbus's Friend | 9.25 | 1.05 | 10.30 | Phosphate. | 60744 | |

| Date of Collection. | Nature of Sample. | No. of Sample. | Name and Address of Vendor. | Cost. | | Name and Address of Manufacturer or Furnisher as given by the Vendor. | |
|---------------------|-------------------|----------------|--|-----------|--------|---|-------------------|
| | | | | Quantity. | Cents. | Manufacturer. | Furnisher. |
| DISTRICT OF QUEBEC | | | | | | | |
| 1914. | | | | | | | |
| Nov. | 5 | Poudre à Pâte. | 60745. Cantin & Frere, 271 Rue St. Joseph, Quebec. | 3 pkgs | 75 | W. D. McLaren, Montreal. | N. Turcotte & Co. |
| " | 5 | " | 60746. " " " | 3 " | 45 | Coleman, Brockville. | Manufacturer |
| " | 5 | " | 60747 " " " | 3 " | 1.50 | Royal. | Unknown |
| " | 5 | " | 60748 " " " | 3 " | 30 | E. W. Gillett Co., Toronto. | Turcotte & Co. |

DISTRICT OF QUEBEC PROVINCE—

| | | | | | | | |
|--------|----------------|-------|--------------------------------|--------|----|-------------------------------|-------------------------------|
| Nov. 4 | Poudre à pate. | 56402 | Alphonse Roy, St. Angele. | 3 pkgs | 60 | E. W. Gillett Co., Toronto. | Turcotte & Frere, Quebec. |
| " 4 | " | 56405 | Dame Hector, Hudson | 3 " | 45 | Coleman B.P. Co., Brockville | " |
| " 5 | " | 56406 | Abraham Kilallah, Hudson | 3 " | 51 | E. W. Gillett Co., Toronto. | " |
| " 6 | " | 56412 | Philias Côte, St. Octave | 3 " | 75 | Coleman B.P. Co., Brockville. | " |
| " 6 | " | 56415 | Louis M. Langlais, St. Octave. | 3 " | 60 | E. W. Gillett Co., Toronto. | Langlais and Paradis, Quebec. |
| " 6 | " | 56417 | Paul Therriault, Kempt | 3 " | 60 | " | " |
| " 7 | " | 56419 | Madame Isadore Dube St. Moise. | 3 " | 60 | " | " |
| " 9 | " | 56420 | Joseph H. Laperte, Amqui. | 3 " | 60 | " | " |
| " 9 | " | 56423 | D. E. Bernier | 3 " | 60 | " | " |
| " 9 | " | 56425 | D. N. Dube, Amqui. | 3 " | 75 | " | " |

DISTRICT OF QUEBEC PROVINCE

| | | | | | | | |
|---------|----------------|------|--|--------|----|-------------------------------|-----------------------|
| Nov. 21 | Poudre à pate. | 2728 | Jos. M. Dube, Capt. St. Igaude, Montmagny. | 3 pkgs | 45 | E. W. Gillett Co., Toronto. | J. B. Renaud, Quebec. |
| 23 | " | 2731 | Jos. Fournier, St. Thomas. | 3 " | 30 | Coleman B.P. Co., Brockville. | " |

DISTRICT OF QUEBEC PROVINCE

| | | | | | | | |
|---------|----------------|------|---------------------------------|--------|----|---------------------|---|
| Oct. 26 | Poudre à pate. | 2855 | Dorchester, Lumber, St. Malachi | 3 pkgs | 45 | H. Paré, Quebec | " |
| " 26 | " | 2857 | " " " | 3 " | 60 | Coleman, Brockville | " |
| " 26 | " | 2858 | " " " | 3 " | 60 | Gillett, Toronto | " |

| Result of Analysis. | | | | | No. of Sample. | Remarks and Opinion of the Chief Analyst. |
|--|-----------------|-----------|--------|----------------------|----------------|---|
| Inspector's Report. (Is not an expression of opinion). | Carbon Dioxide. | | | Character of Powder. | | |
| | Available. | Residual. | Total. | | | |
| | | | | | | |

| | p. c. | p. c. | p. c. | | |
|----------------------|-------|-------|-------|----------------------|-------|
| Acid Phosphate..... | 9.45 | 1.30 | 10.75 | Acid Phosphate..... | 60745 |
| Alum..... | 11.45 | 1.40 | 12.85 | Alum..... | 60746 |
| Cream of Tartar..... | 11.60 | 0.85 | 12.45 | Cream of Tartar..... | 60747 |
| Acid Phosphate..... | 12.50 | 1.25 | 13.75 | Acid Phosphate..... | 60748 |

ALL PELLETIER, TEMPORARY INSPECTOR.

| | | | | | |
|-----------|-------|------|-------|----------------|-------|
| Mg | 12.60 | 0.90 | 13.50 | Acid Phosphate | 56402 |
| Calcium's | 12.90 | 0.90 | 13.80 | Alum " | 56405 |
| Mg | 12.90 | 0.04 | 12.94 | Acid " | 56406 |
| Calcium's | 11.60 | 2.30 | 13.90 | Alum " | 56412 |
| Mg | 11.90 | 1.65 | 13.55 | Acid " | 56415 |
| | 12.25 | 0.40 | 12.65 | " " | 56417 |
| | 9.50 | 2.90 | 12.40 | " " | 56419 |
| | 12.50 | 0.10 | 12.60 | " " | 56420 |
| | 10.30 | 3.35 | 13.65 | " " | 56423 |
| | 11.90 | 1.75 | 13.65 | " " | 56425 |

7. GENDREAU, TEMPORARY INSPECTOR.

| | | | | | |
|-------------------------------|-------|------|-------|---------------------|------|
| 100 lb. | 11 10 | 1 57 | 12 67 | Alum. phosphate.... | 2728 |
| 100 lb. Woman's Special | 12 05 | 3 50 | 15 20 | " " | 2731 |

E. AUDET, TEMPORARY INSPECTOR.

| | | | | |
|-------|------|-------|----------------|------|
| 15 90 | 0 10 | 16 00 | Alum Phosphate | 2855 |
| 14 10 | 1 90 | 16 00 | " " | 2857 |
| 13 35 | 0 35 | 13 70 | Phosphate | 2858 |

BULLETIN No. 308

| Date of Collection. | Nature of Sample | No. of Sample | Name and Address of Vendor. | Cost | | Name and Address of Manufacturer or Furnisher, As given by the Vendor. | |
|-----------------------------|------------------|---------------|--|-----------|--------|--|---------------------------------|
| | | | | Quantity. | Cents. | Manufacturer. | Furnisher. |
| DISTRICT OF QUEBEC PROVINCE | | | | | | | |
| 1914. | | | | | | | |
| Oct. 27 | Poudre a Pate | 2862 | L. J. Audet, St. Edward, Franton. | 3 pkgs | 54 | | Dorchester Lumber. |
| " 28 | " | 2864 | L. Laflamme, St. Marguerite. | 3 " | 45 | | N. Rioux, Quebec. |
| " 29 | " | 2853 | G. E. Dussault, St. Marguerite. | 3 " | 40 | | |
| Nov. 11 | " | 3710 | Bolduc & Severt, Ste. Sabine. | 3 " | 60 | | Gagnon & Garent, Quebec. |
| " 12 | " | 3712 | Jos. Turgeon, St. Isidore. | 3 " | 60 | | Whitehead & Turner, Quebec. |
| " 12 | " | 3713 | " " " | 3 " | 45 | | Carriere & Fils, Levis. |
| " 13 | " | 3715 | " " " | 3 " | 60 | | Drouin & Frere, Quebec. |
| Dec. 2 | " | 2869 | D. Towell, St. Leon de Standon. | 3 " | 60 | | Dorchester Lumber, St. Malachi. |
| " 2 | " | 2870 | " " " | 3 " | 45 | | James Hossach & Montreal. |
| " 2 | " | 2873 | O. Audet, St. Leon de Standon. | 3 " | 60 | | Dorchester Lumber. |
| " 2 | " | 2874 | " " " | 3 " | 45 | | " " " |
| " 3 | " | 2877 | A. Clontier, St. Odilon, Cramborn. | 3 " | 60 | | A. B. Dupuis, Quebec. |
| " 3 | " | 2878 | " " " | 3 " | 45 | | Moulin Ocean, Montreal. |
| " 4 | " | 2885 | L. J. Audet, St. Edward | 3 " | 45 | Quebec Baking Powders. | Dorchester Lumber. |
| " 5 | " | 3720 | M. Dechene, Ste Germaine Station. | | | Quebec Preserving Quebec. | |
| " 9 | " | 3724 | D. Fortier, Ste Rose, Dorchester. | 3 " | 60 | | |
| " 10 | " | 3726 | D. Roy, St. Prosper. | 3 " | 45 | | |
| " 10 | " | 3727 | " " " | 3 " | 45 | | |
| " 10 | " | 3728 | " " " | 3 " | 60 | | J. B. Renaud, Quebec. |
| " 21 | " | 3730 | A. Mercier, Ste Patrice de Beauvinage. | 3 " | 45 | | |
| " 21 | " | 3731 | " " " | 3 " | 60 | | |
| " 22 | " | 3736 | O. Tradette, Ste Narcisse, head, Bois. | 3 " | 60 | | |
| " 22 | " | 3737 | " " " | 3 " | 45 | | Quebec Preserving, Quebec. |
| " 22 | " | 3740 | A. Demers, Ste Narcisse, head Bois. | 3 " | 60 | | Gagnon & Garent, Quebec. |
| " 23 | " | 3743 | J. Blais, St. Bernard, Dorchester. | 3 " | 45 | | |
| " 23 | " | 3744 | " " " | 3 " | 75 | Stroud's Baking Powder, Montreal. | |

BAKING POWDER.

| Inspector's Report, (is not an expression of opinion.) | Results of Analysis. | | | Character of Powder | No. of Sample. | Remarks, and Opinion of the Chief Analyst. |
|--|----------------------|-----------|--------|---------------------------|----------------|---|
| | Carbon Dioxide. | | | | | |
| | Available | Residual. | total. | | | |
| <i>Continued</i> | | | | | | |
| Magie | p. c. | p. c. | p. c. | | | |
| ..... | 12.30 | 0.15 | 12.45 | Phosphate..... | 2862 | |
| ..... | 12.25 | 0.30 | 12.55 | " | 2864 | |
| ..... | 10.75 | 0.20 | 10.95 | " | 2853 | |
| ..... | 10.95 | 2.15 | 13.10 | " | 3710 | |
| ..... | 11.25 | 1.60 | 12.85 | " | 3712 | |
| Old Star | 8.55 | 2.90 | 11.45 | Alum Phosphate..... | 3713 | |
| Magie..... | 12.50 | 0.40 | 12.90 | Phosphate..... | 3715 | |
| ..... | 10.65 | 3.70 | 14.35 | Acid Phosphate | 2869 | |
| Connaught..... | 7.00 | 0.90 | 7.90 | Alum | 2870 | |
| Magie..... | 11.90 | 2.00 | 13.90 | Acid | 2873 | |
| Quaker | 14.65 | 1.55 | 16.20 | Alum | 2874 | |
| Magie..... | 9.15 | 0.35 | 9.50 | Acid | 2877 | |
| Powder Special | 8.25 | 4.65 | 12.90 | Alum | 2878 | |
| Quaker | 10.15 | 0.15 | 10.30 | Alum (trace of Phosphate) | 2885 | |
| Mullin | 15.10 | 1.50 | 16.6 | Alum | 3720 | |
| Magie | 13.35 | 0.60 | 13.95 | Phosphate | 3724 | |
| Kent | 13.60 | 0.80 | 14.4 | Alum Phosphate..... | 3726 | |
| Elad | 10.70 | 0.60 | 11.3 | " | 3727 | |
| Magie..... | 11.40 | 0.50 | 11.9 | Acid Phosphate..... | 3728 | |
| Original | 13.90 | 0.50 | 14.4 | Alum..... | 3730 | |
| Magie | 14.50 | 0.60 | 15.1 | Acid Phosphate..... | 3731 | |
| ..... | 13.20 | 0.70 | 13.9 | " | 3736 | |
| Original | 14.30 | 0.80 | 15.1 | Alum | 3737 | |
| Magie | 12.50 | 0.70 | 13.2 | Acid Phosphate..... | 3740 | |
| Connaught..... | 12.80 | 0.90 | 13.7 | Alum | 3743 | |
| ..... | 13.30 | 0.90 | 14.2 | Acid | 3744 | |

BULLETIN No. 308

| Date of Collection. | Nature of Sample | No. of Sample | Name and Address of Vendor. | Cost. | | Name and Address of Manufacturer or Furnisher as given by the Vendor. | |
|-----------------------------|------------------|---------------|--|----------|-------|---|--|
| | | | | Quantity | Cents | Manufacturer. | Furnisher. |
| DISTRICT OF QUEBEC PROVINCE | | | | | | | |
| 1914. | | | | | | | |
| Nov. | 2 Poudre à Pâte. | 207 | W. C. Forgette, Ste Agathe, des Monts. | 3 pkgs | 30 | W. D. McLaren | |
| | 2 | 208 | A. Leduc, Ste Agathe, des Monts. | 3 " | 30 | | |
| | 11 | 221 | Pierre Simard, Ste Agathe, des Monts. | 3 " | 30 | Coleman B. P. Co., Brockville. | |
| | 11 | 222 | Joseph Leferre, Ste Agathe, des Monts. | 3 " | 15 | | Hudon & Orsali |
| | 11 | 225 | J. N. Desjarlins, Ste Agathe, des Monts. | 3 " | 15 | | J. V. Boudrias, 223 Notre Dame E., Montreal. |
| | 26 | 239 | J. B. Leferre, Ste Therese de Blainville. | 3 " | 15 | | Ocean Mills, Montreal. |
| | 26 | 246 | P. E. Desjardins, Ste Therese de Blainville. | 3 pkgs | 15 | | L. Chaput & Fils, Montreal. |
| | 26 | 247 | A. Delormes, Ste Therese de Blainville. | 3 " | 30 | | " |

DISTRICT OF QUEBEC PROVINCE

| | | | | | | | |
|---------|---------------|------|-----------------------------------|--------|----|-----------------------------------|--------------------|
| Oct. 27 | Poudre à Pâte | 2576 | Jos. Langlois, Armagh. | 3 pkgs | 36 | Victor B. P. Mills, Montreal. | |
| " 27 | | 2577 | Jos. Langlois, Armagh. | 3 " | 36 | F. F. Dalley Co., Hamilton. | |
| " 27 | | 2578 | Mastai Boulanger, Armagh. | 3 " | 36 | | Quebec Preserving. |
| " 27 | | 2580 | Cleophas Beaudoin, Armagh. | 3 " | 36 | | ing. |
| " 27 | | 2581 | Cleophas Beaudoin, Armagh. | 3 " | 54 | E. W. Gillett Co., Ltd., Toronto. | |
| " 27 | | 2584 | Arthur Tremblay, Armagh. | 3 " | 54 | | |
| " 27 | | 2587 | Arthur Tradette, Armagh. | 3 " | 36 | F. F. Dalley Co., Hamilton. | |
| " 29 | | 2589 | Antoine Labrecque, Ste Raphael. | 3 " | 45 | The Hygiene B. P. Co., | |
| " 29 | | 2590 | Frs. Ant. Labrecque, Ste Raphael. | 3 " | 60 | E. W. Gillett Co., Ltd., Toronto. | |
| " 29 | | 2591 | J. A. Lemieux, St. Michel. | 3 " | 60 | John Baker Edwards, Montreal. | |

DISTRICT OF THREE RIVERS—

| | | | | | | | |
|---------|---------------|------|-------------------------------|--------|----|---|--------------------------------|
| Oct. 30 | Poudre à Pâte | 2643 | Arthur Caisse, Berthierville. | 3 pkgs | 75 | Coleman B. P. Co., Brockville. | |
| " 30 | | 2686 | H. Daviault, Berthierville. | 3 " | 45 | Snowden, Forbes, Montreal. | |
| " 26 | | 2688 | I. W. Lacasse, L'Assomption. | 3 " | 15 | | Chevalier & Pouliot, Joliette. |
| " 28 | | 2689 | Archibald Duff, Charlemaigne. | 3 " | 45 | Matthewson & Sons, Co., Ltd., Montreal. | |

BAKING POWDER.

Result of Analysis.

| Inspector's Report (not an expression of opinion) | Carbon Dioxide. | | | Character of Powder | No. of Sample | Remarks and Opinion of the Chief Analyst. |
|---|-----------------|----------|-------|---------------------|------------------|--|
| | Available | Residual | Total | | | |
| S. CADEUX, INSPECTOR. | | | | | | |
| Friend | 8.00 | 0.60 | 8.6 | Acid Phosphate | 207 | |
| Process | 13.20 | 0.20 | 13.4 | Alum | 208 | |
| Union's Special | 10.50 | 1.20 | 11.7 | " | 221 | |
| Gold | 10.50 | 0.40 | 10.9 | " | 222 | |
| White Rose | 10.30 | 0.10 | 10.4 | " | 225 | |
| Orange | 8.60 | 3.85 | 12.45 | " | 239 | |
| Perfection | 12.40 | 0.25 | 12.65 | " | 246 | |
| Alum | 6.95 | 6.00 | 12.95 | " | 247 | |

O. BROCHU, TEMPORARY INSPECTOR.

| | | | | | | |
|---------------|-------|------|-------|-----------------|------|--|
| Eight | 14.20 | 0.30 | 14.50 | Alum. | 2576 | |
| Kitchen Queen | 11.80 | 0.20 | 12.0 | " | 2577 | |
| Special | 10.50 | 1.60 | 12.10 | " | 2578 | |
| Oriental | 13.85 | 0.25 | 14.10 | " | 2580 | |
| Magn | 11.90 | 0.50 | 12.40 | Phosphate | 2581 | |
| Magn | 13.40 | 0.25 | 13.65 | " | 2584 | |
| Kitchen Queen | 12.20 | 0.20 | 12.40 | Alum. | 2585 | |
| Orchid | 15.70 | 6.55 | 16.25 | " | 2589 | |
| Magn | 12.45 | 0.25 | 12.70 | Phosphate | 2590 | |
| Perfection | 12.30 | 0.15 | 12.45 | Alum. Phosphate | 2591 | |

DR. V. P. LAVALLEE, INSPECTOR.

| | | | | | | |
|-----------------|-------|------|-------|-----------------|------|--|
| Union's Special | 11.70 | 0.70 | 12.40 | Alum. Phosphate | 2643 | |
| Gold | 5.55 | 0.70 | 6.25 | Phosphate | 2686 | |
| Gold | 11.00 | 0.10 | 11.10 | Alum. | 2688 | |
| Quaker | 7.75 | 1.35 | 9.10 | Phosphate | 2689 | |

| Date of Collection | Nature of Sample. | No. of Sample. | Name and Address of Vendor. | Cost. | | Name and Address of Manufacturer or Furnisher as given by the Vendor | |
|---------------------------|-------------------|----------------|--|----------|-------|--|----------------------------|
| | | | | Quantity | Cents | Manufacturer. | Furnisher |
| DISTRICT OF THREE RIVERS- | | | | | | | |
| 1914 | | | | | | | |
| Oct. 28 | Poudre à Pâte | 2601 | Euclide Beauchamp, St. Paul, L'Ermite. | 3 pags | 15 | | Hudon Orsali, Montreal. |
| " 28 | " | 2602 | M. Lebeau, Charlemagne... | 3 " | 45 | E. W. Gillett Co., Toronto. | |
| " 28 | " | 2603 | Edm. Robillard, St. Paul, L'Ermite. | 3 " | 15 | | Chaput & Fils, Montreal. |
| " 29 | " | 2604 | O. Carignan Fils, Three Rivers. | 3 " | 30 | E. W. Gillett Co., Toronto. | |
| " 31 | " | 2605 | Joseph Fernet, Fernetville.. | 3 " | 30 | | Chevalier Poullet, Joliet. |
| " 31 | " | 3901 | Louis Brisette, Fernetville. | 3 " | 60 | E. W. Gillett Co., Ltd., Toronto. | |

DISTRICT OF VALLEYFIELD AND ST. HYACINTHE

| | | | | | | | |
|---------|----------------|-------|--|--------|----|--------------------------------|--|
| Oct. 29 | Baking Powder. | 63001 | Edouard Cournoyer, St. Simon St., St. Hyacinthe. | 3 tins | 45 | J. V. Boudrias, Montreal. | |
| " 29 | " | 63002 | " " " " | 3 " | 30 | Coleman B. P. Co., Brockville. | |
| " 29 | " | 63003 | Lamonde & Frère, Cascade St., St. Hyacinthe. | 3 " | 15 | Ocean Mills, Montreal. | |
| " 29 | " | 63004 | " " " " | 3 " | 30 | | |
| " 29 | " | 63005 | F. X. Leblanc, Lafromboise St., St. Hyacinthe. | 3 " | 15 | F. F. Dally Co., | |
| " 30 | " | 63006 | E. E. Biron, Bridge St., Sherbrooke. | 3 " | 30 | Snowdon Forbes Co., Montreal. | |
| " 30 | " | 63007 | " " " " | 3 " | 45 | | |
| " 30 | " | 63008 | Herbert Fortier, Bridge St., Sherbrooke. | 3 " | 45 | F. F. Dally & Co. | |
| " 30 | " | 63009 | Therault & Leclerc, King St., Sherbrooke. | 3 " | 30 | E. W. Gillett Co., Ltd. | |
| " 30 | " | 64010 | " " " " | 3 " | 30 | Pure Gold Mfg. Co. | |
| Nov 1 | " | 62821 | Alfred Ladouceur, Hawkesbury. | 3 " | 15 | | |
| " 4 | " | 62822 | " " " " | 3 " | 30 | F. J. Picard Co., Montreal. | |
| " 4 | " | 62823 | John Lecour, Hawkesbury | 3 " | 30 | E. H. Ewings & Sons, | |
| " 17 | " | 62824 | Tourangeau & Champagne, Buckingham. | 3 " | 15 | S. J. Major, Ltd., Ottawa. | |
| " 17 | " | 62825 | " " " " | 3 " | 45 | Royal B. P. Co. | |
| " 17 | " | 62826 | W. J. Martin, Buckingham. | 3 " | 30 | F. F. Dalley Co., Ltd. | |
| " 17 | " | 62827 | W. Bertrand, Buckingham | 3 " | 30 | Coleman B. P. Co. | |
| " 17 | " | 62828 | Lahaie Sons, Buckingham. | 3 " | 30 | F. F. Dalley Co., Ltd. | |
| " 17 | " | 62829 | H. Mantha, Buckingham | 3 " | 30 | Latsters Pure Food Co. | |
| " 18 | " | 62830 | Vallee & Montambault, St. John's P.Q. | 3 " | 60 | J. J. Duffy & Co., Montreal. | |

BAKING POWDER.

Results of Analysis.

| Inspector's Report, (is not an expression of opinion.) | Carbon Dioxide. | | | Character of Powder. | No. of Sample. | Remarks and Opinion of the Chief Analyst. |
|--|-----------------|----------|-------|----------------------|----------------|--|
| | Available | Residual | Total | | | |
| ..... | 7.95 | 1.15 | 9.10 | Alum Phosphate | 2901 | |
| Maz | 4.05 | 2.50 | 6.55 | Acid Phosphate..... | 2902 | |
| Friend | 4.25 | 2.10 | 6.35 | Phosphate..... | 2903 | |
| Maz | 11.90 | 0.10 | 12.00 | Phosphate | 2904 | |
| ..... | 11.90 | 0.70 | 12.60 | Alum..... | 2907 | |
| Maz | 12.15 | 1.05 | 13.20 | Phosphate | 2901 | |

J. J. COSTIGAN, ACTING INSPECTOR.

| | | | | | | |
|--------------------------------------|-------|------|-------|-----------------------|-------|--|
| W. & Rose Brand | 12.00 | 0.80 | 12.80 | Alum Phosphate..... | 63001 | |
|'s Special | 11.75 | 1.50 | 13.25 | " | 63002 | |
| ..... | 11.90 | 1.50 | 13.40 | " | 63003 | |
|tion | 10.85 | 2.73 | 13.58 | " | 63004 | |
| Queen | 10.85 | 0.60 | 11.45 | Alum (sulphate)..... | 63005 | |
| ..... | 4.50 | 2.61 | 7.11 | Phosphate..... | 63006 | |
| specially for vendor, | 9.95 | 4.15 | 14.10 | Alum | 63007 | |
| specially for vendor. | 12.40 | 0.30 | 12.70 | " | 63008 | |
| Al | 10.95 | 0.10 | 11.05 | Phosphate..... | 63009 | |
| Choice | 10.60 | 0.90 | 11.50 | Alum Phosphate..... | 63010 | |
| Standard Brand | 8.20 | 1.25 | 9.45 | Alum | 62821 | |
| Pride | 11.70 | 0.10 | 11.80 | " | 62822 | |
| ..... | 10.12 | 1.25 | 11.37 | Alum Phosphate | 62823 | |
| ..... | 12.20 | 0.25 | 12.45 | " Tartrate | 62824 | |
| ..... | 11.65 | 0.50 | 12.15 | Cream of Tartar | 62825 | |
| Queen..... | 10.75 | 0.00 | 10.75 | Alum..... | 62826 | |
|'s Special | 12.80 | 1.00 | 13.80 | Alum Phosphate | 62827 | |
| Queen..... | 10.95 | 1.37 | 12.32 | " Tartrate..... | 62828 | |
| F. & L. | 9.80 | 1.80 | 11.60 | " | 62829 | |
| Favorite | 13.20 | 1.20 | 14.40 | " Phosphate..... | 62830 | |

BULLETIN No. 308

| Date of Collection. | Nature of Sample. | No. of Sample. | Name and Address of Vendor. | Cost. | | Name and Address of Manufacturer or Furnisher as given by the Vendor. | |
|----------------------|-------------------|----------------|--|-----------|--------|---|-------------------------|
| | | | | Quantity. | Cents. | Manufacturer. | Furnisher. |
| DISTRICT OF MONTREAL | | | | | | | |
| 1914. | | | | | | | |
| Nov. | 24 Baking Powder. | 62565 | Beaudoin & Couture, 497 LaSalle Rd., Verdun. | 3 pkgs. | 30 | W. D. McLaren, Ltd., Montreal. | |
| " | 24 | 62566 | L. Riendeau, 509 LaSalle Rd., Verdun. | 3 " | 30 | E. W. Gillett Co., Ltd. | |
| " | 24 | 62567 | J. G. Parent, 381 LaSalle Rd., Verdun. | 3 " | 30 | Royal B. P. Co., New York. | |
| " | 24 | 62568 | O. Trudeau, 1394 Wellington St., Verdun. | 3 " | 30 | National Drug & Chem. Co. | |
| " | 24 | 62569 | " " " " | 3 " | 30 | Ocean Mills, Montreal. | |
| " | 24 | 62570 | R. J. Milne, 1453 Wellington St., Verdun. | 3 " | 15 | Herron, LeBlanc, Montreal. | |
| " | 25 | 62571 | E. Menard, 169 Galt St., Verdun. | 3 " | 30 | A. W. Hugman, Ltd., Montreal. | |
| " | 26 | 62572 | G. H. Langevin, 414 St. Lawrence Boul. Montreal. | 3 " | 60 | Diamond Starch Co., Montreal. | |
| " | 26 | 62573 | L. Rosenberg, 21 Demontigny St., East, Montreal. | 3 " | 15 | | P. Adelstein, Montreal. |
| " | 26 | 62574 | J. Lewis, 181 Demontigny St., East, Montreal. | 3 " | 30 | J. J. Duffy, Montreal. | |

DISTRICT OF OTTAWA

| | | | | | | | |
|------|-------------------|-------|---|--------|----|--|---------------------------|
| Oct. | 23 Baking Powder. | 63501 | A. Roy, Maniwaki... | 3 Cans | 25 | H. F. Pacaud & Co., Montreal. | |
| " | 23 | 63502 | Cavanagh Bros., River Desert. | 3 " | 45 | The J. J. Fanning Co., Ottawa. | |
| " | 24 | 63503 | The Anderson Langstaff Co., Ltd., Kemptville. | 3 " | 75 | White Swan Spices & Cereals Ltd., Toronto. | |
| " | 27 | 63504 | Joseph Martel & Co., Hull. | 3 " | 50 | National Drug & Chem. Co. Montreal. | |
| " | 31 | 63505 | H. Q. Coolidge, Smiths Falls. | 3 " | 45 | The F. F. Dalley Co. Ltd., Hamilton. | |
| " | 31 | 63506 | " " " " | 3 " | 30 | Coleman B. P. Co., Brockville. | |
| Nov. | 5 | 63507 | Lemay & Chapman, Hull. | 3 " | 30 | Boston B. P. Co., Boston, Mass. | C. H. Cochrane, Ottawa. |
| " | 5 | 63508 | Wm. Sarazen, Hull... | 3 " | 30 | Hamilton Coffee & Spice Co., Ltd., Hamilton. | |
| " | 6 | 63509 | McDonald Bros., Gladstone Ave., Ottawa. | 3 " | 30 | W. D. McLaren, Ltd., Montreal. | H. N. Bate & Co., Ottawa. |
| " | 6 | 63510 | B. Pallach, Bank Street, Ottawa. | 3 " | 30 | E. W. Gillett Co., Ltd., Toronto. | |

BAKING POWDER.

Result of Analysis.

| Inspector's Report. (Is not an expression of opinion). | Carbon Dioxide. | | | Character of Powder. | No. of Sample. | Remarks and Opinion of the Chief Analyst. |
|--|-----------------|-----------|--------|----------------------|----------------|--|
| | Available. | Residual. | Total. | | | |
| McCormick's Friend | 8.60 | 1.15 | 9.75 | Acid Phosphate | 62565 | |
| Mellin's | 12.30 | 0.20 | 12.50 | " " | 62566 | |
| Ross's | 12.30 | 0.85 | 13.15 | Cream of Tartar | 62567 | |
| St. George's | 8.10 | 1.10 | 9.20 | " " | 62568 | |
| Oscar's | 8.00 | 3.35 | 11.35 | Alum Phosphate | 62569 | |
| New York | 11.75 | 1.15 | 12.90 | " " | 62570 | |
| Blue Rose | 6.00 | 1.10 | 7.10 | Cream of Tartar | 62571 | |
| Diamond | 7.35 | 3.60 | 10.95 | Alum (tr. Phos.) | 62572 | |
| Kaiser | 6.50 | 6.45 | 12.95 | " Phosphate | 62573 | |
| McCormick's Favorite | 10.15 | 2.15 | 12.30 | " " | 62574 | |

RICKEY, INSPECTOR.

| | | | | | | |
|---------------------|-------|------|-------|------------------|-------|--|
| McCormick's Probe | 10.65 | 0.40 | 11.05 | Alum. | 63501 | |
| Blue Boy | 14.50 | 0.20 | 14.70 | " | 63502 | |
| Blue Boy | 10.60 | 0.35 | 10.95 | " Phosphate | 63503 | |
| St. George's | 8.70 | 0.90 | 9.60 | Cream of Tartar | 63504 | |
| English Cream | 10.15 | 0.30 | 10.45 | Alum (tr. Phos.) | 63505 | |
| McCormick's Special | 10.15 | 0.90 | 11.05 | " Phosphate | 63506 | |
| Blue Boy | 11.80 | 1.60 | 13.40 | " | 63507 | |
| Blue Wave | 13.50 | 1.45 | 14.95 | " Phosphate | 63508 | |
| McCormick's Friend | 8.55 | 0.25 | 8.80 | Acid " | 63509 | |
| New York | 10.38 | 0.52 | 10.90 | Phosphate | 63510 | |

BULLETIN No. 308—

| Date of Collection. | Nature of Sample. | No. of Sample. | Name and Address of Vendor. | Cost. | | Name and Address of Manufacturer or Furnisher as given by the Vendor. | |
|-----------------------|-------------------|----------------|---|-----------|--------|---|--------------------------------|
| | | | | Quantity. | Cents. | Manufacturer. | Furnisher. |
| DISTRICT OF KINGSTON— | | | | | | | |
| 1914. | | | | | | | |
| Oct. 28 | Baking Powder. | 61580 | J. Lemmon, Kingston. | 3 tins. | 75 | E. W. Gillett, Toronto. | |
| Nov. 2 | " | 61581 | H. W. Kelly, Napanee | 3 " | 45 | " | |
| " 2 | " | 61582 | John Paisley, " | 3 " | 30 | Egg O B. P. Co., | |
| " 2 | " | 61583 | F. H. Perry, " | 3 " | 45 | Royal B. P. Co. | |
| " 2 | " | 61584 | G. W. Bayes, " | 3 " | 45 | Maple Leaf B. P. Co. | |
| " 2 | " | 61585 | W. H. Milling, " | 3 " | 25 | Forest City B. P. Co. | |
| " 2 | " | 61586 | S. R. Artis, Belleville | 3 " | 30 | F. F. Dalley, Hamilton. | |
| " 2 | " | 61587 | R. Elvins, " | 3 " | 45 | Egg O B. P. Co. | |
| " 2 | " | 61588 | M. C. Nichols, Cobourg | 3 " | 30 | Eby Blain, Toronto | |
| " 2 | " | 61589 | The Thompson-Macdonald, Cobourg. | 3 " | 45 | Vendors | |
| DISTRICT OF TORONTO— | | | | | | | |
| Nov. 16 | Baking Powder | 64588 | T. H. Brown, Collingwood | 3 cans. | 45 | Young-Winfield Co. Ltd., Hamilton. | |
| " 16 | " | 64589 | Prentice & Sproule, " | 3 " | 45 | McLarens Ltd., Hamilton | |
| " 17 | " | 64590 | E. A. Sibbold, Barrie | 3 " | 45 | F. F. Dalley Co. Ltd., Hamilton. | |
| " 18 | " | 64591 | R. & A. Dyson, Penetanguishene | 3 " | 30 | | W. H. Gillard & Co., Hamilton. |
| " 18 | " | 64592 | D. A. Lahey & Co., " | 3 " | 30 | | Unknown |
| " 19 | " | 64593 | H. J. Kettle & Co., Midland | 3 " | 30 | | W. H. Gillard & Co., Hamilton. |
| " 20 | " | 64594 | Sinclair & Co., Orillia | 3 " | 45 | | Unknown |
| " 21 | " | 64595 | E. J. Bunson, Barrie | 3 " | 45 | Pure Gold Co. Ltd., Toronto. | |
| " 24 | " | 64596 | J. A. Sweet, 481 Queen st. E., Toronto. | 3 " | 30 | Dominion B. P. Co., Toronto. | |
| " 27 | " | 64597 | J. Cake, 1210 Dufferin st., Toronto. | 3 " | 30 | R. B. Hayhoe & Co., Toronto. | |
| DISTRICT OF HAMILTON— | | | | | | | |
| Nov. 2 | Baking Powder. | 64527 | J. R. Horens, Orangeville. | 3 cans. | 30 | Litster Pure Food Co., Toronto. | |
| " 3 | " | 64528 | A. W. McFaul, 9122 2nd Ave. East, Owen Sound. | 3 " | 45 | | Eby, Blain Ltd., Toronto. |
| " 3 | " | 64529 | John McQuaker, 834 2nd Ave. East, Owen Sound. | 3 " | 45 | Todhunter, Mitchell & Co., Toronto. | |

BAKING POWDER

| Inspector's Report. (Is not an expression of opinion.) | Results of Analysis. | | | Character of Powder. | No. of Sample. | Remarks and Opinion of the Chief Analyst. |
|--|----------------------|----------|-------|----------------------|----------------|--|
| | Carbon Dioxide. | | | | | |
| | Available | Residual | Total | | | |
| JAMES HOGAN, INSPECTOR. | | | | | | |
| Mace | 12.10 | 0.65 | 12.75 | Phosphate | 61580 | |
| | 11.60 | 0.55 | 12.15 | " | 61581 | |
| Egg O. | 11.00 | 0.45 | 11.45 | Alum Phosphate | 61582 | |
| Rose | 11.55 | 0.10 | 11.65 | Cream of Tartar | 61583 | |
| Mule Leaf | 14.10 | 0.10 | 14.20 | Acid Phosphate | 61584 | |
| City | 9.30 | 0.35 | 9.65 | Alum " | 61585 | |
| English Cream | 11.45 | 0.25 | 11.70 | " | 61586 | |
| Egg O. | 10.60 | 0.90 | 11.50 | " Phosphate | 61587 | |
| Am | 10.65 | 1.75 | 12.40 | " " | 61588 | |
| Is | 11.20 | 0.60 | 11.80 | " " | 61589 | |

H. J. DAGER, INSPECTOR.

| | | | | | |
|-----------------|-------|------|-------|----------------|-------|
| Mule Leaf Brand | 10.80 | 6.55 | 11.35 | Alum Phosphate | 64588 |
| Mule Leaf | 11.15 | 0.10 | 11.25 | " | 64589 |
| Kitchen Queen | 12.00 | 0.35 | 12.35 | " | 64590 |
| Rose | 15.25 | 0.90 | 16.15 | " Phosphate | 64591 |
| Lakeys | 12.50 | 0.30 | 12.80 | " | 64592 |
| Rose | 10.30 | 1.25 | 11.55 | " Phosphate | 64593 |
| Smokers | 10.85 | 0.95 | 11.80 | " " | 64594 |
| O. 1000 Daisy | 11.80 | 0.70 | 12.50 | " " | 64595 |
| Daisy | 12.00 | 0.70 | 12.70 | " " | 64596 |
| H. J. Dager's | 10.70 | 0.30 | 11.00 | " " | 64597 |

H. J. DAGER, ACTING INSPECTOR.

| | | | | | |
|-----------------|-------|------|-------|----------------|-------|
| Coke's Favorite | 11.25 | 1.30 | 12.55 | Alum Phosphate | 64527 |
| Rose | 13.15 | 0.20 | 13.35 | " | 64528 |
| Mule Leaf | 11.60 | 0.45 | 12.05 | " | 64529 |

| Date of Collection. | Nature of Sample. | No. of Sample. | Name and Address of Vendor | Cost. | | Name and Address of Manufacturer or Furnisher as given by the Vendor. | |
|----------------------|-------------------|----------------|--|-----------|--------|---|-------------------------------|
| | | | | Quantity. | Cents. | Manufacturer. | Furnisher. |
| DISTRICT OF HAMILTON | | | | | | | |
| 1914. | | | | | | | |
| Nov. | 3 Baking Powder. | 64530 | McClarty Bros., 812 8th St., Owen Sound. | 3 cans | 45 | F. F. Dalley Co., Ltd., Hamilton. | |
| " | 4 " | 64531 | Hunter & Trout, Wiarton. | 3 " | 38 | " | |
| " | 4 " | 64532 | James Mathieson, Wiarton. | 3 " | 30 | I. X. L. Spice and Coffee Mills, London. | |
| " | 6 " | 64533 | L. Klemmer, Hanover. | 3 " | 45 | C. M. Smith & Co., London. | |
| " | 6 " | 64534 | J. H. Appel, Walkerton. | 3 " | 30 | Gorman, Echert Co., London. | |
| " | 10 " | 64535 | The Arcade Ltd., 51 James St. North, Hamilton. | 3 " | 45 | Borde & Co., Hamilton. | |
| " | 10 " | 64557 | P. H. Gage, 331 King St East, Hamilton. | 3 " | 45 | | W. H. Gillard & Co. Hamilton. |

DISTRICT OF WINDSOR--

| | | | | | | | |
|------|------------------|-------|-----------------------------|--------|----|--|-------------------------|
| Nov. | 3 Baking Powder. | 63934 | A. A. Rapson, Woodstock | 3 pkgs | 45 | E. W. Gillett Co., Toronto. | |
| " | 3 " | 63939 | Lewes & Son, Woodstock. | 3 " | 30 | White Swan Spice and Cereals, Toronto. | |
| " | 4 " | 63943 | Mrs. E. Gibson, Tilsonburg. | 3 " | 30 | Gorman, Echert Co., London. | |
| " | 4 " | 63945 | R. M. Teall, Tilsonburg. | 3 " | 60 | Royal B. P. Co., New York. | |
| " | 4 " | 63947 | H. M. Scott, Tilsonburg. | 3 " | 30 | Eggo B. P. Co., Hamilton. | |
| " | 4 " | 63949 | J. A. Trestain, Tilsonburg | 3 " | 30 | Gorman, Echert Co., London. | |
| " | 4 " | 63950 | F. H. Simpkins, Tilsonburg. | 3 " | 45 | | Unknown |
| " | 5 " | 63957 | R. Edwards, Simcoe | 3 " | 30 | | E. Adams & Co., London. |
| " | 5 " | 63959 | O. R. Hauselman, Simcoe. | 3 " | 30 | Young, Winfield Ltd., Hamilton. | |
| " | 5 " | 63963 | L. F. Aiken, Simcoe. | 3 " | 30 | Hamilton Coffee and Spice Co., Hamilton. | |

DISTRICT OF MANITOBA

| | | | | | | | |
|-----|------------------|-------|----------------------------------|--------|----|--|------------------------------|
| Nov | 3 Baking Powder. | 61216 | Wm. Muir, Grocer, Brandon. | 3 pkgs | 75 | Hamilton Coffee & Spice Co., Hamilton. | |
| " | 3 " | 61217 | J. Bower & Co., Grocer, Brandon. | 3 " | 75 | The Dyson Co., Winnipeg. | |
| " | 10 " | 61218 | A. F. Higgins & Co., Carman. | 3 " | 60 | The White Star Mfg. Co., Winnipeg | |
| " | 10 " | 61219 | H. Hastie, Carman | 3 " | 40 | | The Codyville Co., Winnipeg. |
| " | 12 " | 61220 | Galloway Bros., Ltd., Gladstone. | 3 " | 75 | E. W. Gillett Co., Ltd., Toronto. | |

BAKING POWDERS.

| Results of Analysis. | | | | | | | Remarks and Opinion of the Chief Analyst. |
|--|-----------------|----------|--------|----------------------|----------------|--|--|
| Inspector's Report. (Is not an expression of opinion.) | Carbon Dioxide. | | | Character of Powder. | No. of Sample. | | |
| | Available | Residual | Total. | | | | |
| <hr/> | | | | | | | |
| | p. c. | p. c. | p. c. | | | | |
| Golden Cream | 10.10 | 0.35 | 10.45 | Alum | 64530 | | |
| Light White | 12.35 | 0.45 | 12.80 | " | 64531 | | |
| Swiss Tart | 10.05 | 0.25 | 10.30 | " Phosphate | 64532 | | |
| Golden's | 14.05 | 0.70 | 14.75 | " " | 64533 | | |
| Swiss Lake | 13.75 | 0.50 | 14.25 | " " | 64534 | | |
| White Shief | 13.00 | 1.25 | 14.25 | " " | 64535 | | |
| P | 13.35 | 0.40 | 13.75 | " | 64557 | | |

JOHN TALBOT, INSPECTOR.

| | | | | | |
|-----------------|-------|------|-------|-----------------|-------|
| M | 12.50 | 0.10 | 12.60 | Acid Phosphate | 63934 |
| White Swan | 11.90 | 1.85 | 13.75 | " | 63939 |
| Forest City | 13.15 | 0.70 | 13.85 | Alum " | 63943 |
| R | 12.00 | 0.40 | 12.40 | Cream of Tartar | 63945 |
| F | 11.85 | 0.60 | 12.45 | Alum Phosphate | 63947 |
| Forest City | 11.70 | 1.15 | 12.85 | " | 63949 |
| Maple Leaf | 15.80 | 0.70 | 16.50 | " | 63950 |
| Can | 13.30 | 0.60 | 13.90 | " | 63957 |
| Mothers' Choice | 9.80 | 1.50 | 11.35 | " | 63959 |
| Ocean Wave | 11.80 | 1.60 | 13.40 | " | 63963 |

A. C. LARIVIERE, INSPECTOR.

| | | | | | |
|------------|-------|------|-------|-----------------|-------|
| Ocean Wave | 11.20 | 2.10 | 13.30 | Alum. phosphate | 61216 |
| R | 11.30 | 1.40 | 12.70 | " | 61217 |
| White Star | 11.10 | 0.50 | 11.60 | " | 61218 |
| P | 10.50 | 0.80 | 11.30 | " | 61219 |
| M | 13.70 | 0.20 | 13.90 | Acid phosphate | 61220 |

| Date of Collection. | Nature of Sample. | No. of Sample. | Name and Address of Vendor. | Cost | | Name and Address of Manufacturer or Furnisher as given by the Vendor. | |
|----------------------|-------------------|----------------|-------------------------------------|-----------|--------|---|--------------------------------------|
| | | | | Quantity. | Cents. | Manufacturer. | Furnisher. |
| DISTRICT OF MANITOBA | | | | | | | |
| 1914. | | | | | | | |
| Nov. 12 | Baking Powder | 61221 | R. E. Broadfoot, Gladstone. | 3 pkgs | 60 | ..... | The Gold Standard Mfg. Co., Winnipeg |
| " 16 | " | 61222 | Simpkin's Grocery, James, Winnipeg. | St. 3 " | 30 | Blue Ribbon, Ltd., Winnipeg. | |
| " 16 | " | 61223 | Berney & Chapman, James, Winnipeg. | St. 3 " | 30 | McLaren, Ltd., Hamilton. | |
| " 16 | " | 61224 | " " " " | 3 " | 30 | E. W. Gillett & Co., Toronto. | |
| " 17 | " | 61225 | B. Dalman, Selkirk..... | 3 " | 30 | Eggo, E. P. Co., Hamilton. | |

DISTRICT OF SASKATCHEWAN

| | | | | | | | |
|---------|---------------|-------|--------------------------------------|--------|----|---|-----------------------------|
| Oct. 27 | Baking Powder | 64048 | S. B. Yessa, Regina. | 3 pkgs | 45 | Campbell Bros., Wilson, Ltd., Winnipeg. | Mfrs. |
| " 27 | " | 64050 | Bergl & Kusch, Regina. | 3 " | 45 | Eggo B. P. Co., Hamilton. | Unknown. |
| " 28 | " | 64051 | G. R. Russell, Prince Albert. | 3 " | 60 | Gold Standard Mfg. Co., Winnipeg. | Codville Co. |
| " 28 | " | 64052 | The McLeod Co., Ltd., Winnipeg. | 3 " | 75 | Blue Ribbon Co., Ltd., Winnipeg. | Mfrs. |
| " 28 | " | 64053 | Cameron & Heap, Ltd., Prince Albert. | 3 " | 40 | Imperial Cocoa & Spice Co., Hamilton. | " |
| " 29 | " | 64059 | J. F. Cairns, Saskatoon. | 3 " | 75 | | James Turner, Hamilton. |
| " 29 | " | 64060 | Woodside's, Ltd., Saskatoon. | 3 " | 75 | E.W. Gillett, Ltd., Toronto. | A. McDonald Co., Saskatoon. |
| " 29 | " | 64061 | F. R. McMullan, Saskatoon. | 3 " | 75 | | Balfour Smye Co., Hamilton. |
| " 30 | " | 64062 | Saskatoon Trading Co., Saskatoon. | 3 " | 75 | | The Dyson Co., Winnipeg. |
| Nov. 3 | " | 64063 | W. H. Birt, Pense. | 3 " | 75 | The Dyson Co., Winnipeg. | " |

DISTRICT OF ALBERTA

| | | | | | | | |
|---------|----------------|-------|-----------------------------|--------|----|-------------------------------|--|
| Nov. 18 | Baking Powder. | 52054 | Wollard's Grocery, Calgary. | 3 Bx's | 45 | Blue Ribbon, Ltd., Winnipeg. | |
| " 18 | " | 52055 | S. J. Freeze | 3 " | 75 | F. F. Dalley Co., Hamilton. | |
| " 19 | " | 52056 | G. I. Wood | 3 " | 75 | Mason & Hickey, Winnipeg. | |
| " 23 | " | 52057 | Sharpe & Page, Stettler. | 3 " | 60 | E. W. Gillett Ltd., Winnipeg. | |
| " 24 | " | 52058 | Pride, Nash & Co. | 3 Tins | 75 | " | |
| " 25 | " | 52059 | R. B. Price, Camrose. | 3 " | 75 | Eggo B. P. Co., Hamilton. | |

BAKING POWDER.

Results of Analysis.

| Inspector's Report. (not an expression of opinion.) | Carbon Dioxide. | | | Character of Powder. | No. of Sample. | Remarks and Opinion of the Chief Analyst. |
|---|-----------------|----------|-------|----------------------|----------------|--|
| | Available | Residual | Total | | | |
| ..... | p.c. | p.c. | p.c. | | | |
| ..... | 12.90 | 0.70 | 13.60 | Alum phosphate..... | 61221 | |
| ..... | 11.30 | 0.60 | 11.90 | "..... | 61222 | |
| ..... | 13.30 | 0.35 | 13.65 | Phosphate..... | 61223 | |
| ..... | 13.20 | 0.40 | 13.60 | "..... | 61224 | |
| ..... | 12.75 | 0.15 | 12.90 | Alum phosphate..... | 61225 | |

L. H. HALL, INSPECTOR.

| | | | | | | |
|-------|-------|------|-------|---------------------|-------|--|
| ..... | 11.30 | 1.20 | 12.50 | Alum phosphate..... | 64048 | |
| ..... | 12.20 | 0.75 | 12.95 | "..... | 64050 | |
| ..... | 12.90 | 1.00 | 13.90 | "..... | 64051 | |
| ..... | 11.50 | 0.50 | 12.00 | "..... | 64052 | |
| ..... | 13.90 | 0.80 | 14.70 | "..... | 64053 | |
| ..... | 13.35 | 1.10 | 14.45 | "..... | 64059 | |
| ..... | 13.10 | 0.30 | 13.40 | Acid phosphate..... | 64060 | |
| ..... | 16.10 | 0.60 | 16.70 | Alum phosphate..... | 64061 | |
| ..... | 11.95 | 2.00 | 13.95 | "..... | 64062 | |
| ..... | 12.40 | 1.10 | 13.50 | "..... | 64063 | |

A. W. R. MARKLEY, INSPECTOR.

| | | | | | | |
|-------|-------|------|-------|---------------------|-------|--|
| ..... | 11.45 | 1.40 | 12.85 | Alum Phosphate..... | 52054 | |
| ..... | 12.00 | 0.60 | 12.60 | "..... | 52055 | |
| ..... | 12.00 | 0.80 | 12.80 | " Phosphate..... | 52056 | |
| ..... | 13.10 | 0.30 | 13.40 | Acid "..... | 52057 | |
| ..... | 13.20 | 0.75 | 13.95 | " "..... | 52058 | |
| ..... | 11.50 | 1.45 | 12.95 | Alum "..... | 52059 | |

BULLETIN No. 308—

| Date of Collection. | Nature of Sample. | No. of Sample. | Name and Address of Vendor. | Cost. | | Name and Address of Manufacturer or Furnisher as given by the Vendor. | |
|---------------------|-------------------|----------------|-----------------------------|-----------|--------|---|------------|
| | | | | Quantity. | Cents. | Manufacturer. | Furnisher. |

DISTRICT OF ALBERTA—

| | | | | | | | |
|---------|----------------|-------|-------------------------------|--------|------|-----------------------------------|--|
| 1914. | | | | | | | |
| Nov. 25 | Baking Powder. | 52060 | Younge Bros., Camrose. | 3 Tins | 15 | Georgeson & Co., Ltd., Calgary. | |
| " 26 | " | 52061 | Montgomery Bros., Wetaskiwin. | 3 " | 1 20 | Price B. P. Co., Chicago. | |
| " 26 | " | 52062 | Fowler & Co. | 3 " | 75 | Alta. Empress Co., Ltd., Calgary. | |
| " 27 | " | 52063 | A. M. Campbell, Lacombe. | 3 " | 60 | Blue Ribbon, Ltd., Winnipeg. | |

DISTRICT OF ROCKY MOUNTAINS—

| | | | | | | | |
|---------|----------------|-------|---|--------|------|--------------------------------------|--|
| Nov. 10 | Baking Powder. | 61706 | Trail Grocery Co., Trail. | 3 Tins | 1 35 | Price B. P. Co., Chicago. | |
| " 10 | " | 61707 | " " " | 3 " | 75 | Eggo B. P. Co., Hamilton. | |
| " 10 | " | 61708 | " " " | 3 " | 75 | E. W. Gillett Co., Toronto. | |
| " 10 | " | 61712 | Co-operative Italian Assoc., Trail. | 3 " | 1 05 | Maybell & Co., Toronto. | |
| " 20 | " | 61722 | Armstrong Departmental Store, Merritt. | 3 " | 75 | Kelly Douglas Co., Vancouver. | |
| " 20 | " | 61715 | Merritt & District Indust. Co-op. Socy., Merritt. | 3 " | 60 | F. F. Dalley, Co., Hamilton. | |
| " 23 | " | 61730 | Hudson's Bay Co., Kamloops. | 3 " | 1 20 | A. Schilling & Co., San Francisco. | |
| " 23 | " | 61731 | R. McCall, Kamloops. | 3 " | 75 | W. A. Jamieson Coffee Co., Victoria. | |
| " 23 | " | 61732 | R. McCall, " " | 3 " | 75 | J. A. Folger & Co., San Francisco. | |
| " 23 | " | 61733 | R. McCall, " " | 3 " | 75 | White Swan Mills, Toronto. | |

DISTRICT OF VANCOUVER—

| | | | | | | | |
|---------|----------------|-------|--|---------|------|------------------------------------|--|
| Oct. 27 | Baking Powder. | 55116 | Peter Torrance, Keefer st. and Campbell ave., Vancouver. | 3 tins. | 60 | Price B. P. Co., Chicago. | |
| " 27 | " | 55117 | J. P. Sinclair, Commercial Drive and 14th ave., Vancouver. | 3 " | 75 | Egg O. P. B. Co., Ltd., Hamilton. | |
| " 27 | " | 55118 | Fenyn's Grocery, 1955 Commercial Drive, Vancouver. | 3 " | 60 | Royal B. P. Co., New York. | |
| " 27 | " | 55119 | The Cash Grocery, 1923 Commercial Drive, Vancouver. | 3 " | 60 | E. W. Gillett Co., Ltd., Toronto. | |
| " 28 | " | 55120 | F. Lyons 1609 Commercial Drive, Vancouver. | 3 " | 45 | Empress Mfg Co., Vancouver. | |
| " 28 | " | 55121 | Swindell Bros., 1417 Commercial Drive, Vancouver. | 3 " | 1 20 | A. Schilling & Co., San Francisco. | |

BAKING POWDER.

| Inspector's Report. (Is not an expression of opinion). | Results of Analysis. | | | | No. of Sample. | Remarks and Opinion of the Chief Analyst. |
|--|----------------------|----------|--------|----------------------|----------------|--|
| | Carbon Dioxide. | | | Character of Powder. | | |
| | Available | Residual | Total. | | | |
| | | | | | | |

Continued.

| | p. c. | p. c. | p. c. | | |
|---------------------|-------|-------|-------|----------------------|-------|
| Maple Leaf | 12.80 | 0.60 | 13.40 | Acid Phosphate..... | 52060 |
| Price's | 12.20 | 0.35 | 12.55 | Cream of Tartar..... | 52061 |
| Alberta's Best..... | 11.00 | 0.70 | 11.70 | Alum Phosphate..... | 52062 |
| Blue Ribbon..... | 10.05 | 2.35 | 12.40 | " | 52063 |

THOS. PARKER, INSPECTOR.

| | | | | | |
|-----------------------|-------|------|-------|----------------------|-------|
| Dr. Price's | 11.40 | 0.30 | 11.70 | Cream of Tartar..... | 61706 |
| Egg-O..... | 11.70 | 0.20 | 11.90 | Alum Phosphate..... | 61707 |
| Magic | 12.80 | 0.30 | 13.10 | Acid | 61708 |
| Art | 10.90 | 0.10 | 11.00 | Alum | 61712 |
| Nabab | 10.05 | 3.25 | 13.30 | " | 61722 |
| Maple Leaf..... | 10.10 | 0.35 | 10.45 | " | 61715 |
| Schilling's Best..... | 13.65 | 0.95 | 14.60 | Cream of Tartar..... | 61730 |
| Feather Light..... | 8.35 | 3.75 | 12.10 | Alum Phosphate..... | 61731 |
| Golden Gate..... | 11.35 | 0.75 | 12.10 | Cream of Tartar..... | 61732 |
| Queen's Favorite..... | 9.15 | 2.45 | 11.60 | Alum | 61733 |

E. J. MORGAN, INSPECTOR.

| | | | | | |
|-------------------------|-------|------|-------|-----------------------|-------|
| Dr. Price's Cream | 12.30 | 0.25 | 12.55 | Cream of Tartar | 55116 |
| Ezgo | 11.80 | 0.15 | 11.95 | Alum Phosphate..... | 55117 |
| Royal | 11.25 | 0.20 | 11.45 | Cream of Tartar..... | 55118 |
| Magic | 14.30 | 0.20 | 14.50 | Acid Phosphate..... | 55119 |
| Empress..... | 12.30 | 1.75 | 14.05 | Alum | 55120 |
| Schilling's..... | 13.10 | 0.20 | 13.30 | Cream of Tartar..... | 55121 |

| Date of Collection. | Nature of Sample. | No. of Sample. | Name and Address of Vendor. | Cost. | | Name and Address of Manufacturer or Furnisher as given by the Vendor. | |
|-----------------------|-------------------|----------------|--|-----------|--------|---|------------|
| | | | | Quantity. | Units. | Manufacturer. | Furnisher. |
| DISTRICT OF VANCOUVER | | | | | | | |
| 1914. | | | | | | | |
| Oct. 29 | Baking Powder. | 55122 | T. W. Turner, 890 Pender st. w., Vancouver. | 3 tins. | 60 | Kelly Douglas Co., Vancouver. | |
| " 29 | " | 55123 | " " " " | 3 " | 45 | White Star Mfg. Co., Winnipeg. | |
| " 29 | " | 55124 | London Grocery Co., Ltd., 1050 Granville st., Vancouver. | 3 jars. | 45 | F. E. Dalley Co., Ltd., Hamilton. | |
| " 29 | " | 55125 | David Spencer, Ltd., Vancouver. | 3 tins. | 75 | Egg O. B. P. Co., Hamilton. | |

DISTRICT OF VICTORIA—

| | | | | | | | |
|--------|----------------|-------|--|---------|------|---|--|
| Nov. 5 | Baking Powder. | 62004 | The Windsor Grocery Co., 817 Government st., Victoria. | 3 tins. | 75 | W. A. Jamieson Coffee Co., Victoria. | |
| " 6 | " | 62006 | The West End Grocery Co., 1002 Government st., Victoria. | 3 " | 75 | E. W. Gillart Co., Toronto. | |
| " 9 | " | 62015 | Copas & Young, Cor. Fort and Broad st., Victoria. | 3 " | 60 | Royal B. P. Co., New York. | |
| " 9 | " | 62016 | " " " " | 3 " | 60 | Price B. P. Co., Chicago. | |
| " 10 | " | 62017 | Dixie H. Ross, 1317 Government st., Victoria. | 3 " | 75 | Egg O. B. P. Co., Regina. | |
| " 11 | " | 62021 | Acton Bros., 1317 Douglas st., Victoria. | 3 " | 60 | Pioneer Coffee & Spice Mills, Victoria. | |
| " 11 | " | 62025 | H. O. Kirkham Co., Ltd., 741 Fort st., Victoria. | 3 " | 75 | Empress Mfg. Co., Vancouver. | |
| " 11 | " | 62026 | " " " " | 3 " | 1.35 | Royal B. P. Co., New York. | |
| " 13 | " | 62029 | Scott & Peden, Cor. Store and Cormorant st., Victoria. | 3 " | 1.05 | Price B. P. Co., Chicago. | |
| " 23 | " | 62030 | Simon Leiser & Co., Ltd., 524 Yates st., Victoria. | 3 " | 40 | White Star Mfg. Co., Winnipeg. | |

BAKING POWDER.

| Inspector's Report, to suit an analysis. | Results of Analysis. | | | Character of Powder. | No. of Sample. | Remarks and Opinion of the Chief Analyst. |
|--|------------------------------|----------|-------|----------------------|----------------|--|
| | Carbon Dioxide, Available | Residual | Total | | | |
| <i>Domestic.</i> | | | | | | |
| Nature's | 11.35 | 1.35 | 12.70 | Alum Phosphate | 55122 | |
| White Star | 6.90 | 2.35 | 9.25 | " | 55123 | |
| English Cream | 11.95 | 0.65 | 12.60 | Alum | 55124 | |
| Manufactured for vendor and labeled "Spencer's Baking Powder." | 11.00 | 0.60 | 11.60 | Alum Phosphate | 55125 | |

D. O'SULLIVAN, INSPECTOR.

| | | | | | | |
|---------------|-------|------|-------|-----------------|-------|--|
| Farther Light | 13.80 | 0.20 | 14.00 | Alum Phosphate | 62004 | |
| Wagon | 13.40 | 0.20 | 13.60 | Acid | 62006 | |
| Royal | 9.7 | 1.35 | 11.10 | Cream of Tartar | 62015 | |
| Empire | 11.95 | 1.35 | 12.30 | " | 62016 | |
| Excelsior | 12.10 | 0.20 | 12.30 | Alum Phosphate | 62017 | |
| Hygiene | 12.40 | 0.30 | 12.70 | Acid | 62021 | |
| Empress | 10.90 | 1.80 | 12.70 | Alum | 62025 | |
| Royal | 12.30 | 0.30 | 12.60 | Cream of Tartar | 62026 | |
| De Price's | 13.10 | 0.50 | 13.60 | " | 62029 | |
| White Star | 9.45 | 1.45 | 10.90 | Alum Phosphate | 62030 | |